

## Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

## **Features and Benefits**

Frequency range: 5.5MHz-60MHz(Fundamental) 40MHz-125MHz(3<sup>rd</sup> overtone) Load capacitance: 6-20pF Drivel level: 100uW Stability: ±15ppm to ±50ppm Operating temperature: -40°C -+85°C Size: 7.0x5.0x1.3mm

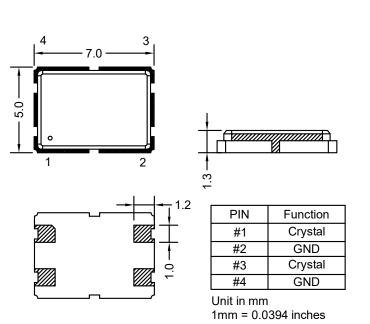
### **Typical Applications**

Bluetooth, Mobile phone, GPS Wireless LAN,4G/LTE Hard Disk

#### **Description**

XTAL7500AX offers Tight tolerance and High stability. This device is suitable for use under various telecom and network communication applications.

## Mechanical Drawing & Pin Connections



Drawing No: MD240019-1

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



# Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

## **Specifications**

Oscillator Specification	Sym	Condition	Value			11	Nete
			Min.	Тур.	Max.	Unit	Note
Frequency Range		40-125MHz for 3 <sup>rd</sup> overtone	5.5		60	MHz	
Frequency Tolerance		@+25°C	±10, ±20			ppm	
Frequency Stability			±15, ±20, ±50			ppm	
Aging		First year			±5.0	ppm	
Mode			Fundamental or 3 <sup>rd</sup> overtone				
Level of drive				100		uW	
DLD		50nW to 100uW			±10	ppm	
RLD		50nW to 100uW			20%	ohm	
Shunt capacitance	C0				5.0	pF	
Load Capacitance	CL		8,18,20		pF		
Insulative Resistance		Min @ 100Vdc ±15Vdc		500		Mohm	
Equivalent Series Resistance (ESR)		5.5-8MHz			100	ohm	
		8-11.99MHz			70		
		12-20MHz			50		
		20-50MHz			40		
		40-125MHz (3 <sup>rd</sup> overtone)			80		
Operating temperature			-20°C to +70°C, -40°C to +85°C				
Storage temperature			-55 °C to +125°C				
Sealing Method			Seam Weld				
Moisture Sensitivity Level			1				